

Name: \_\_\_\_\_

**p1029: Box multiplication of linear binomials (v15)**

**Example**

Use the box method to multiply  $(6x + 3)$  and  $(2x + 4)$ .

*	6x	3	
2x	$12x^2$	6x	$12x^2 + 6x + 24x + 12$
4	24x	12	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER:  $12x^2 + 30x + 12$

**Question 1**

Use the box method to multiply  $(6x + 8)$  and  $(3x + 7)$ .

*	6x	8	
3x	$18x^2$	24x	
7	42x	56	

ANSWER:  $18x^2 + 66x + 56$

### Question 2

Use the box method to multiply  $(-2x - 7)$  and  $(9x - 6)$ .

*	$-2x$	$-7$
$9x$	$-18x^2$	$-63x$
$-6$	$12x$	$42$

ANSWER:  $-18x^2 - 51x + 42$

### Question 3

Use the box method to multiply  $(-5x - 7)$  and  $(-2x + 9)$ .

*	$-5x$	$-7$
$-2x$	$10x^2$	$14x$
$9$	$-45x$	$-63$

ANSWER:  $10x^2 - 31x - 63$